Appendix C. Statistical Methodology

MAIL LIST MODEL

Classification analysis was performed to predict the probability that an addressee on the 1992 mail list operated a farm, and thereby separated the preliminary mail list into probable farm and probable nonfarm classes. The analysis was used to reduce the preliminary census mail list of 3.78 million records to a final mail list size of 3.55 million records. All 3.55 million addresses on the final mail list received a census of agriculture report form.

Records from the 1987 final census mail list were used to build a 1992 prediction model for the 1992 analysis. Classification and Regression Trees (CART) software analyzed characteristics of known 1987 farm and nonfarm operations to determine which were most useful in predicting farm and nonfarm classes. Record characteristics such as the source of the mail list record, number of source lists on which the record appeared, expected value of agricultural sales, and geographic location were used to separate mail list records into model groups. (Sources included the previous agriculture census mail list, the Internal Revenue Service administrative records, U.S. Department of Agriculture, and special commodity lists.) The proportion of 1987 census farm records in each model group was calculated to provide an estimate of the probability that an addressee in the group operated a farm.

After the model groups were defined, each address record on the 1992 preliminary mail list was assigned to a model group by matching record characteristics to model group characteristics. Records belonging to the groups with the highest farm probability were those more likely to be farms according to the classification tree methodology. The model, followed by analyst reviews, was used to remove 229,700 records from the preliminary mail list (those in model groups with the lowest farm probability), and thereby designated the 3.55 million records with the highest farm probability to receive the census report form. This procedure was used to obtain a more complete census enumeration of farm operations without excessive respondent burden and data collection cost.

CENSUS SAMPLE DESIGN

Each of the 3.55 million name and address records on the census mail list was designated to receive one of three different types of census report forms. The three forms were the nonsample form, the screener form, and the sample form. Sections 1 through 20 and 27 through 32 of the sample form are identical to sections on the nonsample form. The sample form, sections 21 through 26, contains additional questions on usage of fertilizers and chemicals, farm production expenditures, value of machinery and equipment, value of land and buildings, and farm-related income. The screener form is identical to the nonsample form with questions added in section 1 to allow quick identification of nonfarm addresses. These three different forms were used to reduce the response burden of the census, while providing reliable information on a large number of data items.

The sample form was mailed to all mail list records in Alaska, Hawaii, and Rhode Island, and to a sample of records in other States selected from the final mail list. Addresses were selected into the sample with certainty (1) if they were expected to have large total value of agricultural products sold or large acreage, (2) if they were multiunit operations (i.e., separate farms in more than one location), (3) if they had other special characteristics, or (4) if they were in a county with less than 100 farms in 1987. Other addresses in counties containing 100 to 199 farms in 1987 were systematically sampled at a rate of 1 in 2, and other addresses in counties containing 200 farms or more in 1987 were systematically sampled at a rate of 1 in 6. This differential sampling scheme was used to provide reliable data for the sample sections of the report form for all counties. When a nonsample large farm was identified during processing, a supplemental form that contained the additional sample data inquiries was mailed.

To determine which mail list records would receive the screener form, all mail list records not designated for the sample were sorted by model group farm probability as specified by the mail list model. The 412,000 mail list records in the model groups with the lowest probability of being farms and with an expected total value of agricultural product sales less than \$25,000 were designated to receive the screener report form. The remaining mail list records received the nonsample report form.

CENSUS ESTIMATION

The 1992 Census of Agriculture used two types of statistical estimation procedures. These estimation procedures accounted for nonresponse to the data collection and for the sample data collection. These procedures are necessary because some farm operators never respond to

the census despite numerous attempts to contact them, and the estimates for the sample data are based on a sample of farm operators rather than a full enumeration.

Whole Farm Nonresponse Estimation

A statistical estimation procedure was used to account for nonrespondent farm operators to the census. We excluded large and unique farm operations that received intensive telephone followup during census processing, assuming complete response from them. A stratified systematic sample of remaining census nonrespondents were contacted by enumerators using a computer-assisted telephone interview system. Five sample strata were defined based on expected value of sales, previous census status, and whether the record was identified by the mail list model to receive the screener report form. The nonresponse survey telephone interview was designed to provide sufficient information to determine the farm status of each record.

In situations where the nonresponse survey case could not be contacted, the contact person refused to cooperate, or when no phone number could be obtained, a screener report form was sent by certified mail.

Estimates of the proportion of census nonrespondents that operated farms were made for each stratum in the State using survey results and applied to the total number of census nonrespondents in that stratum. The number of census nonrespondents that operated farms for each county by stratum was then derived. This estimation procedure is based on the assumption that the distribution of farms in a stratum by county is the same for census nonrespondents as for census respondents.

Certain census respondent farms which exhibited "rare" commodities were designated as "ineligible" to represent census nonrespondent farms and were excluded from the nonresponse weighting operation. The procedure explained below was performed with only the eligible respondent cases: Within each stratum in a county, a noninteger nonresponse weight was calculated and assigned to each eligible respondent farm record. The noninteger nonresponse weight is the ratio of the sum of the estimated number of nonrespondent farms from the nonresponse survey and the number of eligible census respondent farms to the number of eligible census respondent farms. Stratum controls were established to ensure that this weight was never greater than 2.0. The noninteger nonresponse weight was used in the calculation of the final weight for the sample items. The noninteger nonresponse weight was randomly rounded to an integer weight of either 1 or 2 for each record for tabulating the complete count items for publication.

Table A quantifies the effect of the nonresponse estimation procedure on selected census data items. The percentages in these tables are the percents of the census values contributed by nonresponse estimation. These indicate the potential for bias in published figures resulting from nonresponse to the census. The estimates provided

in these tables do not reflect the effect of item nonresponse to individual census data items. The effect of item nonresponse is discussed in the Census Nonsampling Error section.

Table A. Percent of State Totals Contributed by Whole Farm Nonresponse Estimation: 1992

Item	Percent of total
Farmsnumber.	11.4
Land in farmsacres	8.9
Estimated market value of land and	
buildings ¹ \$1,000	8.4
Market value of agricultural products sold _\$1,000	2.2
Harvested croplandacres	6.1
Corn for grain or seedacres	11.0
Wheat for grainacres	_
Livestock and poultry inventory:	
Cattle and calvesnumber	2.7
Hogs and pigs number	11.5
Hens and pullets of laying agenumber	5.1

¹Data are based on a sample of farms.

Sample Estimation

Sample data estimates the population totals that would have resulted from a complete census for the items in sections 21 through 26 of the sample report form. The estimates were obtained from a ratio estimation procedure that resulted in the assignment of a weight to each respondent record containing sample items. For any given county, a sample item total was estimated by multiplying the data items for each farm in the county by the corresponding sample weight and summing over all sample records in the county.

Each respondent sample farm was assigned a sample weight for use in producing estimates for all sample items. For example, if the weight given to a sample farm had the value 6, all sample data items reported by that farm would be multiplied by 6. The weight assigned to a sample certainty farm was 1.

Other than certainty farms, within a county, the ratio estimation procedure for farms was performed in three steps using three variables. The first variable contained eight 1992 total value of agricultural production (TVP) groups. Both the second and third variables, Standard Industrial Classification (SIC) code and farm acreage, contained two groups. The three sets of groups were as follows:

TVP	SIC	Acres
\$1 to \$999 \$1,000 to \$2,499 \$2,500 to \$4,999 \$5,000 to \$9,999 \$10,000 to \$24,999 \$25,000 to \$49,999 \$50,000 to \$99,999 \$100,000 or more	01 All crops 02 All livestock	1 to 69 70 or more

The first step in the estimation procedure was to classify the sample records into 32 mutually exclusive initial post strata formed by the three sets of groups. The total and sample farm counts were expanded to account for nonresponse. Each cell containing sample farm records was assigned an initial sample weight equal to the ratio of the total farm count to the sample farm count. This weight was approximately equal to the inverse of the probability of selecting a farm for the census sample.

The second step in the estimation procedure was to combine, if necessary, the 32 initial post strata to increase the reliability of the ratio estimation procedure. Any stratum that contained less than 10 sample farms after nonresponse adjustment or had a weight greater than two times the mail sample rate was collapsed with another stratum. The mail sample rate was either 2 or 6, depending on whether the county had a 1 in 2 or 1 in 6 sample selection rate. The collapsing occurred within the initial 32 post strata according to a specified collapsing pattern. After the collapsing process was completed, new total farm counts and sample farm counts were computed from each of the final post strata and were used to calculate final sample weights.

The final step consisted of assigning the noninteger final post stratum weight to the sample farm records in each post stratum. The weight is the ratio of total farm count to sample farm count in each final post stratum. The noninteger sample weight, the product of the noninteger final post stratum weight and the nonresponse weight, was randomly rounded to an integer weight for tabulation. If, for example, the final weight for the farms in a particular post stratum was 7.2, then 0.2 or one-fifth of the sample farms in this post stratum were randomly assigned a weight of 8 and the remaining four-fifths received a weight of 7.

CENSUS SAMPLING ERROR

The sample for the 1992 Census of Agriculture is only one of a large number of possible samples of the same size that could have been selected using the same sample design. Sample refers to the sample for both the nonresponse survey and the selection of farms to receive the sample report forms. Estimates derived from all the possible samples would differ from each other only by random variation.

The standard error or sampling error of a survey estimate is a measure of the variation among the estimates from all possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The percent relative standard error of an estimate is defined as 100 times the standard error of the estimate divided by the value of the estimate.

If all possible samples were selected, each of the samples were surveyed under essentially the same conditions, and an estimate and its standard error were calculated from each sample, then:

- Approximately 90 percent of the intervals from 1.65 standard errors below the estimate to 1.65 standard errors above the estimate would include the average value of all possible samples.
- Approximately 95 percent of the intervals from 1.96 standard errors below the estimate to 1.96 standard errors above the estimate would include the average value of all possible samples.

The following example illustrates the computations necessary for producing a confidence interval for an estimate. Assume that the estimate of number of farms for a State is 94,382 and the relative standard error of the estimate is .1 percent (0.001). Multiplying 94,382 by 0.001 yields 94, the standard error; therefore, a 90-percent confidence interval is 94,227 to 94,537 (i.e., 94,382 plus or minus 1.65 x 94). If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 90 percent of these intervals would contain the figure obtained from a complete enumeration. Similarly, a 95-percent confidence interval is 94,198 to 94,566 (i.e., 94,382 plus or minus 1.96 x 94).

Census items were classified as either complete count or sample count items. Complete count items were asked of all farm operators. Examples of complete count items were land in farms, harvested cropland, livestock inventory and sales, crop acreage, quantities harvested and crop sales, land use, irrigation, government loans and payments, conservation acreage, type of organization, and operator characteristics.

Sample count items were asked only of a sample of farm operators. These items appeared only in sections 21 through 26 of the sample report form. Sample count items were included under the following section headings: commercial fertilizers, chemicals, production expenses, farm machinery and equipment, value of land and buildings, and farm-related income.

Variability, measured as percent relative standard error, in the estimates of complete count items is due only to the nonresponse survey estimation procedure. Variability in the estimates of sample count items is due to both the nonresponse survey estimation procedure and the census sample selection and estimation procedure. Thus, variability in the sample count item estimates tends to be larger than the variability in the complete count item estimates.

Table B provides the generalized reliability estimates of the estimated number of farms in a county reporting complete count and sample count items. The top half of the table shows the percent relative standard error for estimated number of farms in a county reporting a complete count item and the bottom half a sample count item. These are derived from regression equations. Separate regression equations were used for complete count items and sample count items. Each regression equation was fit with the estimated number of farms in a county reporting an item as the independent variable and the relative variance of that estimate as the dependent variable for all counties in the State. For sample count items, only data

from counties sampled at a rate of 1 in 6 are used in the estimation of the regression equation.

Table B. Reliability Estimates for Number of Farms in a County Reporting a Complete Count Item or Sample Count Item: 1992

Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM	
Number of farms reporting: 25 50 75 100 150 200 300 500 750	5.6 3.9 3.0 2.5 1.9 1.5 .9 .7
1,000	(X) (X) (X)
25	26.5 21.2 19.2 18.0 16.8 16.2 15.5 15.0 (X) (X) (X)

To illustrate the use of this table, assume that the estimate of the number of farms reporting hogs and pigs for a particular county, as given in county table 15, is 89. Since hogs and pigs is a complete count data item, refer to the first part of table B and use the estimated percent relative standard error of the estimate from the row with farm count equal to or just less than the estimated number of farms, 89. For this example, the percent relative standard error of the estimate comes from the row for 75 farms reporting. For sample count items, follow the same procedure using the second part of table B. For counties with fewer than 100 farms in the 1987 Census of Agriculture, variability in sample count item estimates comes only from nonresponse survey estimation procedures; thus, the estimated relative standard error for a sample count item in these counties may be obtained using the first part of table B.

Table C presents the percent relative standard error of selected State data items for all farms, and table D presents the percent relative standard error of selected State data items for all farms with sales of \$10,000 or more.

Table E presents the percent standard error for percent change in State totals from 1987 to 1992. The general

purpose of the percent change estimate is to provide a relative measure of the difference in a characteristic between censuses. The relative change for a given characteristic is defined as the ratio of the difference of the 1992 and the 1987 estimate for that characteristic to the 1987 estimate. This ratio is multiplied by 100 to obtain the percent change. The percent standard error of a percent change estimate, then, is the standard error of the ratio multiplied by 100.

Table F presents the percent relative standard error for State and county totals for selected data items. The percent relative standard error of the estimate for the same item differs among counties in the State. Reasons for this are differences among counties in (1) the total number of farms, (2) the number of large farms included with certainty, (3) the size classifications of the farms sampled, (4) the amount of nonresponse, (5) the general agricultural characteristics, and (6) the specific characteristic being measured.

CENSUS NONSAMPLING ERROR

The accuracy of the census counts are affected jointly by sampling errors, described in the previous section, and nonsampling errors. Extensive efforts were made to compile a complete and accurate mail list for the census, to design an understandable report form with instructions, and to minimize processing errors through the use of quality control measures on specific operations. Nonsampling errors arise from incompleteness of the census mail list, duplication in the mail list, incorrect data reporting, errors in editing of reported data, and errors in imputation for missing data. These specific nonsampling errors are further discussed in this section. Evaluation studies will be conducted to measure the extent of certain nonsampling errors such as coverage error and classification error.

Census Coverage

The main objective of the census of agriculture is to obtain a complete and accurate enumeration of U.S. farms with accurate data on all aspects of the agricultural operation. However, the high cost and availability of resources for enumeration place restrictions on feasible data collection methodologies. The past six agriculture censuses have been conducted by mail enumeration with telephone contact for selected nonrespondents. The completeness of such an enumeration thus depends to a large extent on the coverage of farm operations by the census mail list.

The past five censuses of agriculture have included approximately 91 percent of farms in the United States and approximately 96 percent of agriculture production. Complete enumeration of agricultural operations satisfying the farm definition of \$1,000 or more in agricultural sales is complicated by fluctuations in agricultural operations qualifying for enumeration, the variety of arrangements under which farms are operated, the multiplicity of names used

by an operation, the number of operations in which an operator participates, the accuracy of data reporting, and other factors. A new mail list is compiled for each census because no current single list of agricultural operations is comprehensive.

An evaluation of census coverage has been conducted for each census of agriculture since 1945. The evaluation provides estimates of the completeness of census farm count and major census data items. In addition, the evaluation helps to identify problems in the census enumeration and provide information that can form the basis for improvements. The results of the 1992 Coverage Evaluation program will be published in volume 2, Subject Series (Part 2): Coverage Evaluation.

The evaluation of coverage for the 1992 census was designed to measure four components of error in the census mail list and in farm classification. Mail list error includes two components of error, a measurement of farms not on the census mail list (undercount) and a measurement of farms enumerated more than once in the census (overcount). Classification error includes two components of error, a measurement of farms classified as nonfarms in the census (undercount) and of nonfarms classified as farms in the census (overcount). Classification error arises from reporting and processing errors. Mail list undercount dominates all coverage errors. Net coverage error is defined as the difference between undercounted and overcounted farms. Measurements of these errors, as well as a description of the complete coverage program, will be available in the Coverage Evaluation report.

Mail List Coverage

A major problem with mail enumeration for the census of agriculture is the difficulty encountered in compiling a complete mail list. The percentage of farms included on the census mail list varies considerably by State. Several reasons have contributed to farm operator names not being included on the census mail list—the operation may have been started after the mail list was developed, the operation may be so small as not to appear in any of the agriculture-related source lists used in compiling the census list, or the operation may have been falsely classified as a nonfarm prior to mailout. A large proportion of the farms not included on the mail list are small in both acres and sales of agricultural products.

The 1992 Census of Agriculture Coverage Evaluation used the area segment sample of the 1992 June Agricultural Survey (JAS) of the National Agricultural Statistical Service (NASS) to estimate farms not on the census mail list. The Census Bureau contracted with NASS to augment the JAS data collection. The survey data collected by NASS will be protected under the confidentiality of title 13, U.S. Code. These JAS survey records were matched to the census mail list. Records that did not match were mailed a census of agriculture report form to estimate mail list

coverage. Estimates of farms not on the census mail list are computed using a capture-recapture dual frame estimator which will be described in the Coverage Evaluation report mentioned earlier.

Table G provides coverage evaluation estimates for one component of coverage error associated with the census of agriculture; that is, the error due to farms not on the census mail list. Also provided are estimates of selected characteristics of farms not on the mail list, estimates of characteristics of farms not on the mail list as a percentage of total farms in the State, and the percent relative standard error associated with each estimate. The estimate of total farms in the State is based on census farm count plus the estimated number of farms not on the census mail list. This estimate of total farms in the State was not adjusted for the components of error associated with classification and list duplication error. Estimates of these errors will be made at the regional, rather than the State level, and will be provided in the Coverage Evaluation report mentioned earlier.

Respondent and Enumerator Error

Incorrect or incomplete responses to the mailed census report form or to the questions posed by a telephone enumerator introduce error into the census data. Such incorrect information can lead, in some cases, to incorrect classification of farms. This type of reporting error is measured by the Classification Error Survey discussed later in this section. To reduce all types of reporting error, detailed instructions for completing the report form were provided to each addressee. Questions were phrased as clearly as possible based on tests of the census report form and each respondent's answers were checked for completeness and consistency.

Item Nonresponse

As information flows from data collection to tabulation, various types of item nonresponses are identified on the report forms. Nonresponse to particular questions on the report form that logically should be present may create a type of nonsampling error in both complete count and sample count data. When information from reporting farms is used to edit or impute for item nonresponse, the data may be biased due to characteristics of the nonreporting respondents differing from those reporting the item. Any attempt to correct the data items may not completely reflect this difference either at the element level (individual farm operation) or on the average.

Processing Error

All phases of processing for each report form are sources for the introduction of nonsampling error. The processing of the report forms includes clerical screening for farm activity, computerized check-in of report forms and follow-up of nonrespondents, keying and transmittal of

completed report forms, computerized editing of inconsistent and missing data, review and correction of individual records referred from the computer edit, review and correction of tabulated data, and electronic data processing. These operations undergo a number of quality control checks to ensure as accurate an application as possible, yet some errors are not detected and corrected.

Classification Error

An evaluation study of classification errors was conducted in the 1992 Census of Agriculture as part of the census coverage evaluation program. A sample of census mail list respondents was selected, and these addresses were reenumerated to determine whether they were a farm or nonfarm. A farm status determination was made based on the evaluation report form and compared with the census farm status which was based on the data reported on the report form. Differences in status were reconciled.

In past censuses, the proportion of farms undercounted due to classification errors was higher for farms with small values of sales. For the 1987 census, the classification error rate was higher for (1) farms with small values of sales, (2) farms with a small number of acres, (3) full-owner farms than part-owner or tenant farms, (4) operators with principal occupation other than farming, and (5) males than females. Results from the 1992 Classification Error Survey will be published in the Coverage Evaluation report.

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

The Census of Agriculture Complex Edit and Imputation System performs the following functions:

- Ensuring reasonable relationships between/among data items, values for various sizes of farms, and combinations of commodities.
- Ensuring necessary consistencies are present. There are more than 70 distinct consistency requirements.
- Ensuring geographic, legal, and physical constraints are met.

The system must perform these and similar functions for 900 data keycodes for sample records and 850 data keycodes for nonsample records.

For the 1992 Census of Agriculture, as in previous censuses, all reported data were keyed and then edited by computer. The edits were used to determine whether the reports met the minimum criteria to be counted as farms in the census. The complex edit and imputation system provided the basis for deciding to accept, impute (supply), delete, or alter the reported value for each data record item.

Whenever possible, edit imputations, deletions, and changes were based on component or related data on the respondent's report form. For some items, such as operator characteristics, data from the previous census were used when available. Values for other missing or unacceptable reported data items were calculated based on reported quantities and known price parameters.

When these and similar methods were not available and values had to be supplied, the imputation process used information reported for another farm operation in a geographically adjacent area with characteristics similar to those of the farm operation with incomplete data. For example, a farm operation that reported acres of corn harvested, but did not report quantity of corn harvested, was assigned the same bushels of corn per acre harvested as that of the last nearby farm with similar characteristics that reported acceptable yields during that particular execution of the computer edit. The imputation for missing items in each section of the report form was conducted separately; thus, assigned values for one operation could come from more than one respondent.

Prior to the imputation operation, a set of default values and relationships were assigned to the possible imputation variables. The relationships and values varied depending on the item being imputed. For example, different default values were assigned for several standard industrial classification and total value of sales categories when imputing hired farm labor expenses. These values and item relationships for the possible imputation variables were stored in the computer in a series of matrices.

Each execution of the computer edit consisted of records from only one State. The computer records were sorted by reported State and county. For a given execution of the edit, the stored entries in the various matrices were retained in memory only until a succeeding record having acceptable characteristics for some sections of the report form was processed by the computer. Then the acceptable responses of the succeeding operation replaced those previously stored. When a record processed through the edit had unreported or unacceptable data, the record was assigned the last acceptable ratio or response from an operation with a similar set of characteristics. Once each execution of the computer edit for a State was completed, the possible imputation variables were reset to the default values and relationships for subsequent executions.

After the initial computer edit, keyed reports not meeting the census farm definition were reviewed to ensure that the data were keyed correctly. Edit referrals were generated for about 25 percent of the reports included as farms; they were reviewed for keying accuracy to ensure that the computer edit actions were correct. If the results of the computer edit were not acceptable, corrections were made and the record was reedited.

Table C. Reliability Estimates of State Totals for All Farms: 1992

[For meaning of abbreviations and symbols, see introductory text]

FARMS AND LAND IN FARMS Farms	acres acres	2 445 385 832 158	.7 .7 1.0	FARM PRODUCTION EXPENSES ¹ Total farm production expenses	farms		
Land in farms	acres acres	385 832			farms		
Average size of farm MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD Total sales (see text)	acres					2 440	.8
PRODUCTS SOLD Total sales (see text)	farms			Average per farm	\$1.000	95 755 39 244	.7 1.1
PRODUCTS SOLD Total sales (see text)	farms			Livestock and poultry purchased	forms	732	6.0
Average per farm	_ farms	I		Feed for livestock and poultry	\$1,000	2 968 1 265	2.9 3.5
Average per farm Farms by value of sales: Less than \$1,000 (see text) \$1,000 to \$2,499 \$2,500 to \$4,999 \$10,000 to \$19,999 \$20,000 to \$24,999 \$25,000 to \$39,999 \$40,000 to \$39,999 \$50,000 to \$49,999 \$50,000 to \$49,999 \$250,000 to \$49,999	_ farms			Commercially mixed formula feeds	\$1,000 farms	18 649 820	.8 4.9
Farms by value of sales: Less than \$1,000 (see text) \$1,000 to \$2,499 \$2,500 to \$4,999 \$5,000 to \$9,999 \$10,000 to \$19,999 \$20,000 to \$24,999 \$25,000 to \$39,999 \$40,000 to \$49,999 \$50,000 to \$99,999 \$100,000 to \$49,999 \$250,000 to \$49,999	\$1,000	2 445 114 070	.7 .2 .7		\$1,000	13 610	.8
Less than \$1,000 (see text) \$1,000 to \$2,499 \$2,500 to \$4,999 \$5,000 to \$9,999 \$10,000 to \$19,999 \$20,000 to \$24,999 \$25,000 to \$39,999 \$40,000 to \$49,999 \$100,000 to \$99,999 \$250,000 to \$99,999 \$250,000 to \$499,999	_dollars	46 654	.7	Seeds, bulbs, plants, and trees	farms \$1,000	831 3 271	4.4 5.6
\$1,000 to \$2,499		500	4.7	Commercial fertilizer		1 287 2 868	3.6 2.2
\$2,500 to \$4,999	\$1.000	526 111	1.7 2.6	Agricultural chemicals	farms \$1,000	811 1 528	5.0 1.7
\$5,000 to \$9,999	\$1.000	402 656	1.8 1.8	Petroleum products	farms \$1,000	2 271 4 171	1.4 2.4
\$10,000 to \$19,999	\$1.000	343 1 215	1.8 1.8		V.,00022		
\$20,000 to \$24,999	\$1.000	325 2 246	1.7 1.7	Electricity	farms \$1,000	1 614 3 249	2.7 1.1
\$25,000 to \$39,999 \$40,000 to \$49,999 \$50,000 to \$99,999 \$100,000 to \$249,999	_ farms \$1.000	217 3 001	2.1 2.1	Hired farm labor	farms	885	4.5
\$40,000 to \$49,999 \$50,000 to \$99,999 \$100,000 to \$249,999 \$250,000 to \$499,999	_ farms	71	3.5	Contract labor	\$1,000 farms	21 601 281	.6 10.2
\$40,000 to \$49,999 \$50,000 to \$99,999 \$100,000 to \$249,999 \$250,000 to \$499,999	\$1,000	1 558	3.5	Repair and maintenance	\$1,000 farms	1 140 2 068	5.1 2.0
\$50,000 to \$99,999 \$100,000 to \$249,999 \$250,000 to \$499,999		111	2.8		\$1,000	6 969	1.6
\$100,000 to \$249,999 \$250,000 to \$499,999		3 510 41	2.7 4.8	and equipment	farms \$1,000	428 698	7.4 6.3
\$100,000 to \$249,999 \$250,000 to \$499,999	\$1,000 farms	1 841 143	4.8 1.9	Interest expense	farms	813	4.8
\$250,000 to \$499,999	\$1.000	10 140 170	1.9	Secured by real estate		5 177 571	3.7 5.8
	\$1,000	25 928 64	-	Not secured by real estate	\$1,000 farms	3 986 424	4.7 7.4
\$500.000 or more	\$1,000	21 810	_	,	\$1,000	1 191	3.1
	1,000	32 42 054	_	Cash rent	farms	308	4.8
Sales by commodity or commodity group: Crops, including nursery and greenhouse crops	_farms	1 414	.8	Property taxes	\$1,000	1 077 2 330	2.0
Grains	\$1,000	45 724 16	.4 7.1		\$1,000	8 521	3.1
	\$1,000	(D)	(D)	All other farm production expenses	\$1,000	2 124 13 871	1.9 1.3
Corn for grain	\$1,000	13 204	7.0 10.9				
Wheat		-	_				
Soybeans	farms \$1,000	_	_	NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT) 1			
Sorghum for grain	_ farms	-	-	CALLO FOR THE FARM OUT (OLE TEXT)			
Barley	farms	-	_	411.6	.	0.440	
Oats	_ tarms	2	28.3	All farmsr	\$1.000	2 440 15 953	.8 4.0
Other grains	\$1,000 farms	(D) 3	(D) 24.0	Average per farm	dollars	6 538	4.1
3	\$1,000	(D)	(D)	Farms with net gains ² r		879	4.3
Cotton and cottonseed		-	_	Average net gain	\$1,000 dollars	26 269 29 886	1.4 4.5
Tobacco	\$1,000 farms	-	_				
Hay, silage, and field seeds	\$1.000	- 841	1.1		\$1,000	1 561 10 317	2.6 4.4
. lay, shage, and hold social	\$1,000	5 591	1.2	Average net loss	dollars	6 609	5.1
Vegetables, sweet corn, and melons	_farms	327	1.6				
Fruits, nuts, and berries	\$1,000 farms	5 249 294	1.2 1.7	GOVERNMENT PAYMENTS AND OTHER			
, ,	\$1,000	10 399	.8	FARM-RELATED INCOME			
Nursery and greenhouse crops	_ farms	322	1.6				
Other crops	\$1,000 farms	24 069 55	.6 3.6	Government payments	farms	271	1.5
·	\$1,000	(D)	(D)	Other farm-related income ¹	\$1,000 farms	738 768	1.6 5.4
Livestock, poultry, and their products	_farms	1 281	.8 .2		\$1,000	3 990 206	6.7 12.9
Poultry and poultry products	\$1,000 farms	68 346 225	2.1		\$1,000	593 105	16.9
Dairy products	\$1,000	12 309 314	.2 .9 .3	Gross cash rent or share payments	\$1.000	159	17.8 11.9
Cattle and calves	\$1,000	46 861 766	.3 1.0	Forest products and Christmas trees	\$1,000	508 2 787	7.2 8.0
	\$1,000	6 324	.7	Other farm-related income sources	farms \$1,000	170 450	14.3 27.4
Hogs and pigs	\$1,000	173 819	2.3 3.3				
Sheep, lambs, and wool	farms \$1,000	297 502	1.8 4.2				
Other livestock and livestock products (see text)				I			
y	farms	247	2 በ	COMMODITY CREDIT CORPORATION			
Value of agricultural products sold directly to	farms \$1,000	247 1 531	2.0 2.8	COMMODITY CREDIT CORPORATION LOANS			
individuals for human consumption (see text)	farms \$1,000		2.0 2.8				

Table C. Reliability Estimates of State Totals for All Farms: 1992 -Con.

[For meaning of abbreviations and symbols, see introductor	y textj						
Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)		
LAND IN FARMS ACCORDING TO USE			. ,	TENURE OF OPERATOR		<u> </u>	
Total cropland	farms	2 242	.7	All operators farms		.7 .7	
Harvested cropland	acres	135 437 2 039	.5 .7	acres Full owners farms	. 1 642	.9	
Farms by acres harvested:	acres	100 746	.5	acres Part owners farms	. 664	1.0 1.0	
1 to 9 acres		610	1.4	acres Tenants farms		.8 2.5	
10 to 19 acres		2 242	1.6 1.7	acres	. 14 044	2.2	
20 to 29 acres		4 662 241	1.8 2.1 2.1	OWNED AND RENTED LAND			
30 to 49 acres	acres farms	5 435 283	1.8	OWNED AND RENTED EARD			
	acres	10 291	1.8	Land owned farms acres		.7	
50 to 99 acres	farms acres	266 17 884	1.7 1.6	Owned land in farmsacres	2 306	.7 .7 .7 .7	
100 to 199 acres	farms	178	1.4	Land rented or leased from othersfarms			
200 to 499 acres		23 238 100	1.3 1.0	acres	68 329	.9 .9 1.1	
500 to 999 acres	acres farms	27 327 13	.9	Rented or leased land in farmsfarms	. 803	.9 .9	
1,000 acres or more	acres farms	(D) 2	(D)	acres			
	acres	(D)	(D)	Land rented or leased to othersfarms		2.2 2.9	
Cropland: Pasture or grazing only	forms	1 045	1.0				
	acres	26 409	1.0 1.1	OPERATOR CHARACTERISTICS			
Other cropland	acres	466 8 282	1.3 1.7	Operators by place of residence:			
Total woodland	farms	1 815	.8	On farm operatedNot on farm operated		.7 1.9	
Pastureland and rangeland other than cropland and	acres	218 912	.9	Not reported	. 114	2.7	
woodland pastured		450	1.4	Operators by principal occupation: Farming	1 204	.8	
Land in house lots, ponds, roads, wasteland, etcf		9 756 1 525	1.6	Other	1 241	1.1	
Irrigated land		21 727 308	1.8 1.6	Operators by days worked off farm:	1 420	1.0	
	acres	1 746	1.1	Any200 days or more	848	1.2	
Acres irrigated: 1 to 9 acres	farme	277	1.7	Operators by sex: Male farms	2 043	.7	
10 to 49 acres	acres	628 24	1.9 4.7	acres_ Femalefarms_	348 106	.7 1.7	
	acres	405	3.8	acres		2.6	
50 to 99 acres	acres	307	_	Average age of operatoryears	53.4	1.0	
100 to 199 acres	acres	3 406	_				
200 to 499 acres	acres	-	_	FARMS BY TYPE OF ORGANIZATION			
500 to 999 acres	acres	-	_	Individual or family (sole proprietorship)farms	2 136	.8	
1,000 acres or more	farms acres	-	_	acres Partnershipfarms	. 299 670	.8 .8 2.3	
Hannada dan alan dindada d		205	4.0	acres		1.8	
Harvested cropland irrigated	acres	305 1 736	1.6 1.1	Family held farms_		2.0 1.5	
Pasture and other land irrigated	acres	5 10	10.3 8.0	More than 10 stockholdersfarms	. 1	2.0	
Land under federal acreage reduction programs:				10 or less stockholdersfarms			
Diverted under annual commodity programs	farms acres	21 203	2.2 1.6	Other than family heldfarmsfarmsacres	2 2/2	6.7 2.6	
Conservation Reserve or Wetlands Reserve				More than 10 stockholdersfarmsfarmsfarmsfarms	1 12	7.2	
Programs	acres	23 891	5.9 8.1	Other—cooperative, estate or trust, institutional, etcfarms	. 29	3.4	
VALUE OF LAND AND BUILDINGS 1				ACTES HIRED FARM LABOR	12 733	2.4	
Estimated market value of land and buildings	forms	2 440	.8	FIRED FARM LABOR			
Estimated market value of land and buildings	\$1 000 l	2 440 835 961	2.8 2.9	Hired workers by days worked: 150 days or morefarms	436	5.5	
Average per rarm Average per acre	dollars	342 607 2 256	3.9	workers Less than 150 daysfarms	1 351	5.5 2.2 5.2 3.7	
				workers		3.7	
VALUE OF MACHINERY AND EQUIPMENT ¹				INJURIES AND DEATHS			
Estimated market value of all machinery and equipment	farms	2 429	.9	Farm-related injuries:		<u>.</u> .	
Average per farm	1 000 L	83 960 34 566	2.5 2.7	Operator and family membersfarmsnumber	22	5.4 5.1	
				Hired workers farmsnumber		2.1 1.5	
AGRICULTURAL CHEMICALS ¹				Farm-related deaths: Operator and family membersfarms		=	
Commercial fertilizer		1 259	3.7	number	:	_	
acres on which		65 110	3.0	number		_	

Table C. Reliability Estimates of State Totals for All Farms: 1992 —Con.

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS BY SIZE			LIVESTOCK		
1 to 9 acresfar		1.9	Cattle and calves inventoryfarms	956	.9
ac 10 to 49 acresfar	ns 619	2.2 1.4	number Beef cows farms	48 419 494	.4 1.4
ac 50 to 69 acres far	res 16 691	1.5 2.4	number Milk cows farms	3 727 389	1.8 1.1
	res 11 230	2.4	number	21 659	.4
ac	res 18 318	2.2	Cattle and calves soldfarms	766	1.0
100 to 139 acresfan	ns 271 res 31 569	1.8 1.8	number \$1,000	20 138 6 324	1.1 .7
 140 to 179 acresfan		2.4	Hogs and pigs inventoryfarms number_	289 4 458	1.8 3.6
ac	es 25 212	2.4	Hogs and pigs soldfarms	173	2.3
	es 24 295	2.5 2.6	number \$1,000	9 063 819	3.7 3.3
220 to 259 acresfan	ns 89 res 21 240	2.8 2.8	Sheep and lambs of all ages inventoryfarms	311	1.8
260 to 499 acresfan	ns 299	1.4	number Sheep and lambs soldfarms	8 052 257	2.8 1.9
ac 500 to 999 acresfan		1.4 1.8	number_	7 463	4.1
ac	es 86 750	1.8	Horses and ponies inventoryfarms	668	1.3
1,000 to 1,999 acresfar	ns 27 res 35 161	_	number Horses and ponies soldfarms	4 243 125	2.1 2.9
2,000 acres or morefar	ns 3	_	number_	357	5.1
ac	es 6 858	_			
EARMO DV OTANDARD INDUSTRIAL			POULTRY		
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION					
			Chickens 3 months old or older inventoryfarms number	337 212 748	1.7 1.2
Cash grains (011) fai	ms 7	12.6	Hens and pullets of laying agefarms	327 171 109	1.8
ac Field crops, except cash grains (013)fari	res 869 ns 557	15.2 1.4	number		1.4
ac	res 102 642	1.5	Broilers and other meat-type chickens soldfarms number	25 (D)	5.9 (D)
Vegetables and melons (016)far	res 12 614	3.7		`	,
Fruits and tree nuts (017)fari	ns 224 res 27 446	2.0 2.6	CROPS HARVESTED		
Horticultural specialties (018) far	ns 235	1.9			
ac General farms, primarily crop (019)	res 16 026 ns 150	2.9 2.7	Corn for silage or green chopfarms	258	1.1
ac Livestock, except dairy, poultry, and animal	res 18 062	3.5	acres tons, green	16 577 311 941	.4 .4
specialties (021) fai	ms 538	1.5	Irish potatoes farms	63	3.4
ac Dairy farms (024) fai	res 71 289 ns 291	1.9	acres cwt	168 31 978	5.5 6.4
ac Poultry and eggs (025) far	res 115 944 ns 53	.6 3.8	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)farms	1 492	.8
ac	es 3 462	4.8	acres	77 605	.7
	ns 216 res 11 456	2.3 3.5	Vegetables harvested for sale (see text) tons, dryfarms	136 963 327	.7 1.6
General farms, primarily livestock and animal			acres	3 324	1.5
specialties (029) fai	ns 38	5.4	Land in orchards farms	242	2.0

¹Data are based on a sample of farms. ²Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains of less than \$1,000.

Table D. Reliability Estimates of State Totals for Farms With Sales of \$10,000 or More: 1992

[For meaning of abbreviations and symbols, see introductory text]

ltem		Relativ standa error estima Total (percer		Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS				FARM PRODUCTION EXPENSES ¹		
Farms		849	.8 .7	Total farm production expensesfarms	807 84 201	2.5 .7
Land in farms Average size of farm		218 570 257	. <i>7</i> 1.0	Average per farmdollars	104 338	2.6
				Livestock and poultry purchasedfarms	267	5.5
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD				\$1,000 Feed for livestock and poultry	2 604 434 17 432 345 13 076	2.7 3.2 .5 3.6 .7
Total sales (see text)		849	.8	Seeds, bulbs, plants, and treesfarms	523 3 203	3.3 5.7
Average per farm	\$1,000 dollars	109 842 129 378	.8 .2 .8	Commercial fertilizerfarms \$1,000_	617 2 483	2.9 1.8
•				Agricultural chemicalsfarms	465 1 439	4.0 1.4
Farms by value of sales: \$10,000 to \$19,999		217	2.1	Petroleum productsfarms	794 3 489	2.6 2.6
\$20,000 to \$24,999	\$1,000 farms	3 001 71	2.1 3.5	Electricity\$1,000	717 2 965	2.7 1.1
\$25,000 to \$39,999	\$1.000	1 558 111	3.5 3.5 2.8		540	
\$40,000 to \$49,999	\$1.000	3 510 41	2.7 4.8	Hired farm labor farms	548 21 224	3.4 .6
Ψ-0,000 to Ψ-3,333	\$1,000	1 841	4.8	Contract laborfarms	161 1 008	9.7 4.3
\$50,000 to \$99,999	farms	143	1.9	Repair and maintenance farms farms \$1,000	770 5 566	2.6 1.3
\$100,000 to \$249,999	\$1,000	10 140 170	1.9	Customwork, machine hire, and rental of machinery and equipmentfarms	230	7.1
\$250,000 to \$499,999	\$1.000	25 928	_	\$1,000_ Interest expense farms _	583 506	5.7 4.2
	\$1,000	21 810	_	\$1,000	4 285 384	3.1 5.4
\$500,000 or more	\$1,000	32 42 054	_	Secured by real estatefarms\$1,000	3 219	3.9
Sales by commodity or commodity group: Crops, including nursery and greenhouse crops		573	1.0	Not secured by real estatefarms \$1,000_	258 1 066	5.5 2.7
Grains	\$1,000 farms	43 225 9	.4 6.7	Cash rentfarms	247	3.2
Corn for grain	\$1,000	(D) 8	(D) 5.7	\$1,000_ Property taxes farms_	1 031 762	1.8
Wheat	\$1,000	(D)	(D)	\$1,000	4 077	2.8 3.3 2.5
Soybeans	\$1,000	-	-	All other farm production expenses	806 12 810	1.3
30ybeans	\$1,000	=	=			
Sorghum for grain		_	_	NET CASH RETURN FROM AGRICULTURAL		
Barley	\$1,000 farms	_	_	SALES FOR THE FARM UNIT (SEE TEXT) 1		
Oats	\$1,000 farms	- 1	40.0			
Other grains	\$1,000 farms	(D)	(D)	All farmsnumber \$1,000_	807 23 299	2.5 2.0
g	\$1,000	-	_	Average per farmdollars	28 871	3.2
Cotton and cottonseed		-	_	Farms with net gains ² number	614	3.7
Tobacco	\$1,000 farms	_	_	\$1,000 Average net gaindollars	25 780 41 988	1.3 4.0
Hay, silage, and field seeds	\$1,000 farms	278	1.5		100	7.0
,, ,,	\$1,000	4 144	1.6	Farms with net lossesnumber \$1,000_	193 2 481	7.9 8.1
Vegetables, sweet corn, and melons		178	1.8	Average net lossdollars	12 857	11.3
Fruits, nuts, and berries		4 926 151	1.3 2.0			
	\$1,000	10 078	.8	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Nursery and greenhouse crops		203	1.8	TAKIN KEEK ES INGOINE		
Other crops		23 691 39	.6 3.9	Government payments farms	174	4.5
	\$1,000	(D)	(D)	\$1,000	636	1.5 1.7
Livestock, poultry, and their products	farms \$1.000	526 66 617	.9 .2	Other farm-related income ¹ farms \$1,000	278 2 372	6.7 9.0
Poultry and poultry products	farms	68	3.2	Customwork and other agricultural servicesfarms \$1,000_	87 436	14.4 20.6
Dairy products	\$1,000 farms	12 222 295	.2 .9 .3 .9 .8	Gross cash rent or share paymentsfarms	33 93	20.3 11.3
Cattle and calves		46 796 409	.3 .9	Forest products and Christmas treesfarms \$1,000_	164 1 616	8.7 11.2
Hogs and pigs		5 514 65	.8 3.2	Other farm-related income sources	80 226	12.3 23.2
Sheep, lambs, and wool	\$1,000 farms	649 70	3.9 3.0	Ţ.,,00011		
Other livestock and livestock products (see	\$1,000	285	7.0	COMMODITY CREDIT CORPORATION		
text)	farms \$1,000	69 1 151	3.5 3.6	LOANS		
				I .	1	
Value of agricultural products sold directly to						

Table D. Reliability Estimates of State Totals for Farms With Sales of \$10,000 or More: 1992—Con.

ltem	Total	Relative standard error of estimate (percent)	ltem	Total	Relative standard error of estimate (percent)	
LAND IN FARMS ACCORDING TO USE			FARMS BY TYPE OF ORGANIZATION			
Total cropland farms	815	.8	Individual or family (sole proprietorship)farms _	. 670	.9 .9	
acres Harvested croplandfarms	93 629 787	.6 .8	Partnershipfarms_	. 72	2.4	
acres	73 058	.6	corporation:	. 29 324	1.5	
Cropland: Pasture or grazing only farms	374	1.1	Family held farms_	. 83	1.9	
acres	15 537	1.1	acres_ More than 10 stockholdersfarms _		1.0	
Total woodland farms	631	.9	10 or less stockholdersfarms _		1.9	
Pastureland and rangeland other than cropland and	108 895	1.0	Other than family heldfarms _	. 7	7.4	
woodland pastured farms acres	136 5 455	2.0 1.3	acres_ More than 10 stockholdersfarms _		(D)	
Land in house lots, ponds, roads, wasteland, etcfarms	505	1.0	10 or less stockholdersfarms _	. 6	8.6	
Irrigated land farms	10 591 205	2.5 1.7	Other—cooperative, estate or trust, institutional, etcfarms _		3.1	
acres Harvested cropland irrigated farms	1 527 204	1.0 1.7	acres_	. (D)	(D)	
acres	(D)	(D)	HIRED FARM LABOR			
Pasture and other land irrigatedfarms acres	(D)	12.3 (D)	Hired workers by days worked: 150 days or morefarms _	. 336	3.7	
	(-/	(-)	workers_ Less than 150 daysfarms _	1 227	1.3	
Land under federal acreage reduction programs: Diverted under annual commodity programsfarms	21	2.2	Less than 150 days workers-	. 450 . 2 557	4.5 3.4	
Conservation Reserve or Wetlands Reserve	203	1.6	INJURIES AND DEATHS			
Programs farms	10	5.2	Farm-related injuries:			
acres	627	10.1	Operator and family members farms _	. 16	5.3	
VALUE OF LAND AND BUILDINGS 1			number_ Hired workers farms_	. 20 . 36	4.3 1.6	
Estimated market value of land and buildingsfarms	807	2.5	number_	- 71	1.3	
\$1,000_ Average per farmdollars _	417 672 517 561	3.4 4.2	Farm-related deaths:			
Average per acredollars	2 037	4.7	Operator and family membersfarms _ number_	. _	=	
VALUE OF MACHINERY AND EQUIPMENT 1			Hired workers farmsnumber_		<u>-</u>	
Estimated market value of all machinery and			FARMS BY SIZE			
equipmentfarms \$1,000	807 54 785	2.5 2.3	1 to 9 acres		3.0	
Average per farmdollars	67 887	3.3	10 to 49 acres 50 to 69 acres		2.6 4.4	
			70 to 99 acres		4.6 2.8	
AGRICULTURAL CHEMICALS ¹			140 to 179 acres	. 53	3.6	
Commercial fertilizer farms	606 53 292	3.1 2.2	180 to 219 acres	_ 46	2.9 3.1	
acres on which used	53 292	2.2	260 to 499 acres		1.4 1.5	
TENURE OF OPERATOR			1,000 to 1,999 acres	_ 22	-	
All operators farms	849	.8	2,000 acres or more	- 2	_	
acres Full owners farms	218 570 402	.7 1.3	FARMS BY STANDARD INDUSTRIAL			
Part owners farms	74 772 366	1.5 1.0	CLASSIFICATION			
acres	132 533	.7	Cash grains (011)	_ 2	22.8	
Tenants farms acres	81 11 265	2.8 1.5	Vegetables and melons (016)	. 117 . 56	2.6 3.8	
OWNED AND RENTED LAND			Field crops, except cash grains (013) Vegetables and melons (016) Fruits and tree nuts (017) Horticultural specialties (018)	. 91 . 151	2.7 2.1	
			General farms, primarily crop (019)	20	5.3	
Land owned farms	769 168 986	.8 .8	Livestock, except dairy, poultry, and animal specialties (021)		3.2	
Owned land in farmsfarms	768	.8	Dairy farms (024)	_ 281 _ 18	.8 4.4	
acres	166 757	.8	Poultry and eggs (025) Animal specialties (027)	26	6.0	
Land rented or leased from othersfarms acres	448 51 986	1.0 .8	General farms, primarily livestock and animal specialties (029)	. 8	9.5	
Rented or leased land in farmsfarms	1 710 447	1.2 1.0				
acres	51 813	1.0	LIVESTOCK			
Land rented or leased to othersfarms	46	3.2	Cattle and calves inventoryfarms _ number_		.9	
acres	2 402	3.1	Beef cows farms _	. 131	2.2	
OPERATOR CHARACTERISTICS			number_ Milk cows farms _		.4 2.2 2.9 .9	
OFERATOR CHARACTERISTICS			number_		.4	
Operators by place of residence: On farm operated	702	.9	Cattle and calves soldfarms _		.9	
Not on farm operated	106	2.3	number_ \$1,000_	. 5 514	1.1 .8	
Not reported	41	3.6	Hogs and pigs inventoryfarms _ number_	. 97	2.5 5.0	
Operators by principal occupation: Farming	648	.8	Hogs and pigs soldfarms _	. 65	3.2	
Other	201	2.0	number_ \$1,000_		4.6 3.9	
Operators by days worked off farm:			Sheep and lambs of all ages inventoryfarms _		2.9	
Any	328 142	1.5	number_	. 3 217	5.4	
200 days or more	142	2.4	Sheep and lambs soldfarms _ number_		3.2 7.3	
Operators by sex: Male	761	.8	Horses and ponies inventoryfarms _		2.3	
Female	88	3.1	number_ Horses and ponies soldfarms_	. 892	5.3	
I I			r dorses and popies soid tarms	. 32	5.6	

Table D. Reliability Estimates of State Totals for Farms With Sales of \$10,000 or More: 1992 - Con.

ltem	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
POULTRY			CROPS HARVESTED—Con.		
Chickens 3 months old or older inventoryfarms number Hens and pullets of laying agefarms number	89 205 938 83 165 054	2.7 1.2 2.8 1.4	Irish potatoesfarmsacres	41 144 29 119	3.7 6.1 6.9
Broilers and other meat-type chickens soldfarms number	9 (D)	7.4 (D)	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)acres	523 51 404	.9 .7
CROPS HARVESTED			tons, dry Vegetables harvested for sale (see text)farms	102 279 178	.8 1.8
Corn for silage or green chopfarms acres tons, green	221 16 116 304 941	1.0 .4 .4	Land in orchards farmsacres	2 945 91 3 298	1.6 1.6 2.6 1.1

¹Data are based on a sample of farms.
²Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains of less than \$1,000.

Table E. Reliability Estimates of Percent Change in State Totals: 1987 to 1992

	All farr	ms	Farms with sales of \$10,000 or more				
Item	Percent change from 1987 to 1992	Standard error of estimate	Percent change from 1987 to 1992	Standard error of estimate			
and in farmsnumber	-2.8 -9.5	1.4 1.1	5.6 -3.9	1.:			
Average size of farmacres	-6.5	1.7	-9.2	1.:			
Estimated market value of land and buildings 1: Average per farmdollarsdollarsdollarsdollars	-4.4 6.8	4.5 6.3	-5.4 8.1	4. 5.8			
Estimated market value of all machinery and equipment 1: Average per farmdollars	1.9	4.1	-11.0	4.0			
Farms by size:	20.8	3.3	30.0	4.:			
10 to 49 acres	9.2 -8.2 -12.3	2.5 1.8 1.7	40.0 10.2 -5.5	4. 2. 1.			
500 to 999 acres	-12.3 -16.9 -6.9	2.1	-13.7 -13.7 4.8	1.			
2,000 acres or more	50.0	_	4.0				
Fotal croplandfarms	6	1.4	7.5	1.			
Harvested croplandfarmsacres	-8.3 2 -5.5	1.0 1.4 1.0	-5.1 6.9 -3.2	1.			
rrigated landfarms	21.7	2.5	28.9	2.			
acres	-40.8	1.0	-43.4				
Market value of agricultural products sold\$1,000	6.5 9.6	.5 1.6	7.1 1.4	1.7			
Crops, including nursery and greenhouse crops \$1,000 Livestock, poultry, and their products \$1,000	29.4 -4.8	.7 .5	31.1 -4.3				
Farms by value of sales: Less than \$2,500	-9.0	1.5	(X)	0			
\$2,500 to \$4,999 \$5,000 to \$9,999	-7.5 1.6	2.5 2.8	(X) (X) (X)	() () 3. 4. 2.			
\$10,000 to \$24,999	23.1 16.0	3.4 4.2	23.1 16.0	3. 4.			
\$50,000 to \$99,999 \$100,000 to \$249,999	-18.3 -7.6	2.4	-18.3 -7.6	2.			
\$250,000 to \$499,999	18.5 23.1	_ _	18.5 23.1				
Fotal farm production expenses ¹ \$1,000	4.1 7.2	1.5 2.4	5.3 .7	2. ² 3.			
Net cash return from agricultural sales for the farm unit (see text) 1farms	-2.9 14.3 17.7	1.7 7.2 7.7	4.5 8.4 3.7	2. 2. 3.			
Operators by principal occupation: Farming	4.4 -8.9	1.5 1.7	2.7 16.2	1. 3.			
Operators by days worked off farm:							
Any 200 days or more	−7.7 −11.6	4.7 4.5	9.0 11.8	5.1 6.2			
ivestock and poultry:							
Cattle and calves inventoryfarmsnumber	-16.7 -10.4	1.3 .7	-4.9 -8.4	1. 4.			
Beef cowsfarms number	-15.8 -11.9	1.9 2.4	28.4 2.5	4			
Milk cowsfarms number	-24.9 -13.7	1.3 .7	-12.8 -12.9	i. -			
Cattle and calves soldfarmsnumber	-20.9 -18.2	1.3 1.1	-8.7 -16.9	1. 1.			
Hogs and pigs inventory	9.5 -11.5	3.2 4.3	24.4 -19.1	4. 5.			
Hogs and pigs sold	-3.9 37.1	3.4 7.4	51.2 109.4	6. 15			
Sheep and lambs inventoryfarmsnumber	-14.8 -12.3	2.3 3.8	-2.6 -6.6	3. 6. 3.			
Chickens 3 months old or older inventorytarms number	-16.6 -53.7	2.1	-10.1 -54.3	3.			
Broilers and other meat-type chickens soldfarms number	13.6 (D)	10.3 (D)	28.6 (D)	16. (E			
Selected crops harvested: Corn for grain or seed	6.3	6.7	-10.5	4.			
acres bushels	55.5 80.0	6.8 9.3	52.8 78.4	6.			
Corn for silage or green chopfarms acres	-16.2 -2.4	1.4 .7	-12.0 -1.0	1.			
tons, green Hay-alfalfa, other tame, small grain, wild, grass silage, green chop,	.7	.7	1.9				
etc. (see text)farms acres	-5.9 -8.3	1.4 1.1	.6 -6.7	1. 1.			
Vegetables harvested for sale (see text) tons, dry	-16.9 15.5	1.0 2.7	-16.5 29.0	1. 1. 3. 2.(3.1			
acres Land in orchardsfarms	9.1 10.5	2.6 3.3	11.8	2.0			

¹Data are based on a sample of farms.

Table F. Reliability Estimates for the State and County Totals: 1992

[For meaning of abbreviations and symbols, see introductory text]

[For meaning of abbreviation	ons and symbols,	see introducto	ory text]									
	Fai	rms		Land in far	rms	Average si	ize of farm	Average r and bu	narket value o uildings per far		stimated mark machinery and	
Geographic area	Total (number)	Relati standa error estima (percer	rd of te	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error o estimate (percent	d f e V	alue e	Relative tandard error of estimate percent)	Total (\$1,000)	Relative standard error of estimate (percent)
New Hampshire Belknap Carroll Cheshire Coos	2 445 147 155 219 173		.9 .9 .8	85 832 20 910 25 439 33 935 46 056	. 7 2.3 2.5 2.0 1.4	158 142 164 155 266	1.0 2.5 2.7 2.2 1.8	350 7 297 2 459	633 178 296	2.9 7.0 6.1 11.7 6.4	83 960 3 632 5 215 8 942 6 003	2.5 6.6 4.7 7.2 4.7
Grafton Hillsborough Merrimack Rockingham Strafford Sullivan	348 328 346 339 202 188		.7 .6 .8 .6	75 733 39 844 46 610 34 292 24 716 38 297	1.2 1.4 1.6 1.6 1.8 1.0	218 121 135 101 122 204	1.3 1.6 1.7 1.8 1.9	6 482 7 271 8 344 9 266	025 694 059 195	7.2 9.3 4.6 5.7 5.1 5.1	13 854 10 290 13 191 8 992 6 008 7 833	4.4 5.4 11.2 9.0 4.8 5.4
	Average mark machinery and far	equipment pe	r Marke	t value of a products s	gricultural old	agricultural pro	rket value of oducts sold per irm		Farm	n production e	xpenses ¹	
									Total fa	arm production	n expenses	
Geographic area									Farms		Val	ue
	Value (dollars)	Relative standa error estima (percer	rd of te	Total \$1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error o estimate (percent	d f e	s	Relative tandard error of estimate percent)	Total (\$1,000)	Relative standard error of estimate (percent)
New Hampshire Belknap Carroll Cheshire Coos	34 566 24 875 33 645 42 581 35 107	6 5 8	i.9 i.0	14 070 2 970 3 494 18 431 7 695	.2 1.9 1.6 .4	46 654 20 207 22 542 84 158 44 477	2.7 1.9 1.1	1 9 9	440 146 155 219 171	.8 2.1 1.7 1.2 1.9	95 755 2 902 3 398 12 289 6 393	.7 3.9 2.2 1.6 1.3
Grafton Hillsborough Merrimack Rockingham Strafford Sullivan	39 811 31 467 38 234 26 605 29 889 41 667	5 11 9 5	.5 .2 .1 .1	16 667 15 133 17 650 11 575 7 709 12 746	.6 .5 .5 .7 .7	47 894 46 137 51 013 34 144 38 163 67 800	.9. .8. .2. 1.0 .9.	3 3 0 9	348 327 345 340 201 188	.9 1.0 1.0 1.1 1.8 .8	13 931 13 648 13 795 10 352 7 161 11 887	1.2 1.2 1.7 3.9 2.0 2.4
						Farm production	expenses 1—Co	on.				
	Live	stock and poul	try purchased	d		Feed for livestock and poultry			Seeds, bulbs, plants, and trees			
Geographic area	Farms	5	Val	lue		Farms	Valu	ue	Fa	rms		Value
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relati standa error estima (percer	rd of te	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tota	
New Hampshire Belknap Carroll Cheshire Coos	732 52 43 73 65	6.0 10.2 12.7 19.0 9.1	2 968 122 133 650 315	8 11 5	.4 i.0 1	65 3.5 78 7.0 90 6.3 11 12.6 09 5.9	481 488 3 125	.8 6.2 3.8 .7 1.6	831 44 42 50 64	4.4 9.1 12.0 15.9 9.1	56 79 9	8.7 2.7 1 1.9
Grafton	101 104 111 70 43 70	18.2 22.0 16.8 22.0 14.6 16.9	576 258 315 290 111 197	5 19 1 10	5.5 1 1.6 1 .0 1	87 8.7 22 18.4 84 9.8 47 12.4 93 7.6 44 6.9	2 412 1 414 876	1.5 1.5 2.6 5.9 5.6 2.7	124 146 127 122 71 41	12.3 13.7 12.2 12.6 9.5 14.4	344 615 506 87	5.6 5 2.1 6 35.8 7 3.1
	•	•				Farm production	expenses 1—Co	on.		•	•	
		Commercial				Agricultura	al chemicals				m products	
Geographic area	Farms		Val			Farms	Vali		Fa	rms		Value
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relati standa error estima (percei	rd of te	Relative standard error of estimate er (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)		
New Hampshire Belknap Carroll Cheshire Coos	1 287 69 76 104 87	3.6 7.9 7.5 14.3 7.5	2 868 95 105 260 219	5	5.8 5.2 5.7	11 5.0 5.1 9.7 5.1 9.9 69 21.7 36 14.3	48 50 70	1.7 22.4 9.6 6.0 3.8	2 271 126 135 210 165	1.4 3.7 3.2 4.0 2.6	152 208 489	4.0 4.0 2.7
Grafton	199 201 195 156 117 83	11.0 10.7 9.1 11.3 6.0 14.0	501 414 532 199 201 342	6	i.5 1 i.8 i.3 1 i.5	19 15.6 33 16.0 98 13.7 30 12.7 84 9.0 40 14.8	484 192 299 83	6.2 2.6 6.4 .9 5.0 7.5	329 316 312 314 199 165	2.8 2.4 4.7 4.1 1.9 5.0	495 730 590 31	4.0 4.1 14.8 1 1.8

Table F. Reliability Estimates for the State and County Totals: 1992 —Con.

					Fa	rm production	expenses 1—Co	on.				
		Elect	ricity			Hired far	m labor			Contrac	t labor	
Geographic area	Far	ms	Val	ue	Far	ms	Val	ue	Far	ms	Va	lue
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
New Hampshire Belknap Carroll Cheshire Coos	1 614 101 89 129 133	2.7 5.1 6.0 12.1 4.1	3 249 108 82 429 217	1.1 9.2 2.9 4.3 1.8	885 50 59 96 58	4.5 8.2 6.4 17.3 9.0	21 601 483 560 3 553 782	.6 7.9 2.7 .7 2.6	281 7 18 19 13	10.2 17.7 20.0 38.8 23.2	1 140 49 135 36 20	5.1 17.6 24.7 10.5 6.1
Grafton Hillsborough Merrimack Rockingham Strafford Sullivan	244 199 192 239 143 145	7.6 9.8 9.0 8.0 5.1 6.6	447 501 357 335 311 462	3.7 1.0 2.9 5.3 2.1 2.5	134 105 114 113 66 90	12.5 14.5 13.6 14.9 8.3 13.8	1 726 4 323 2 815 1 939 2 574 2 846	2.2 .8 1.3 1.4 .8 3.3	36 32 32 73 25 26	28.0 26.2 35.8 25.7 19.0 31.1	68 138 282 208 79 124	25.5 7.9 2.3 16.6 13.3 17.1
					Fa	rm production	expenses 1—Co	on.				
		Repair and r	naintenance		Customwor	k, machine hire and equ	, and rental of i	machinery		Interest	expense	
Geographic area	Far	ms	Val	ue	Far	ms	Val	ue	Far	ms	Va	lue
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
New Hampshire Belknap Carroll Cheshire Coos	2 068 120 120 154 150	2.0 3.9 4.4 11.2 3.2	6 969 267 331 844 432	1.6 7.5 7.1 4.0 5.4	428 15 35 51 45	7.4 17.3 14.0 25.6 12.1	698 9 38 55 106	6.3 19.4 8.5 10.0 26.4	813 59 36 74 68	4.8 9.0 11.3 18.9 7.8	5 177 194 222 343 488	3.7 14.4 5.1 16.4 2.2
Grafton	305 316 307 263 174 159	5.3 2.4 5.1 7.8 3.5 5.9	1 070 1 020 952 818 437 799	3.2 5.6 3.0 6.4 4.7 3.1	59 45 50 43 31 54	19.7 27.7 25.9 30.2 18.0 17.9	151 67 79 53 63 76	8.0 12.5 33.4 8.7 13.0 13.6	116 94 100 149 48 69	13.0 18.4 12.6 14.4 11.9 11.9	722 636 729 890 241 712	6.1 10.7 7.2 14.6 12.9 10.8
					Fa	rm production	expenses 1—Co					
		Cash	rent		Property taxes paid				All	other farm prod	uction expense	s
Geographic area	Far	ms	Value		Farms		Value		Farms		Value	
• .	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
New Hampshire Belknap Carroll Cheshire Coos	308 14 14 17 44	4.8 16.7 14.8 — 11.2	1 077 41 40 50 136	2.0 12.6 31.2 - 10.4	2 330 138 146 211 157	1.1 2.4 2.1 1.3 3.5	8 521 419 390 1 079 452	3.1 6.1 8.4 13.5 5.0	2 124 115 138 189 160	1.9 4.4 3.1 6.8 2.5	13 871 376 538 1 213 854	1.3 7.4 2.5 2.4 1.3
Grafton Hillsborough Merrimack Rockingham Strafford Sullivan	79 31 48 19 20 22	10.3 14.2 18.7 1.9 19.7 1.2	197 140 173 39 165 96	2.5 1.6 3.9 .1 .6	341 307 323 338 182 187	1.5 3.6 3.5 1.1 2.5 .8	1 202 1 167 1 118 1 033 656 1 003	6.8 10.0 7.5 8.5 6.4 9.3	297 288 265 323 178 171	5.8 5.8 7.2 3.5 2.9 5.2	2 021 2 022 2 497 1 740 965 1 645	1.5 1.1 1.3 8.5 3.0 3.7
	Net cash retu	rn from agricult (see	ural sales for th	e farm unit		Total cr	opland			Harvested	cropland	
	Far	ms	Val	ue	Far	ms	Acr	es	Far	ms	Acı	es
Geographic area	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
New Hampshire Belknap Carroll Cheshire Coos	2 440 146 155 219 171	.8 2.1 1.7 1.2 1.9	15 953 248 (D) (D) 1 194	4.0 27.9 (D) (D) 7.2	2 242 140 141 195 163	.7 1.1 1.3 1.1 1.2	135 437 6 232 6 233 11 868 16 885	.5 2.2 2.9 1.6 1.1	2 039 130 130 178 148	.7 1.3 1.5 1.4 1.4	100 746 4 145 4 349 9 235 12 611	.5 2.6 2.7 1.7 1.1
Grafton	348 327 345 340 201 188	.9 1.0 1.1 1.8 .8	2 324 1 124 3 219 1 170 542 806	7.1 17.4 10.1 29.1 19.8 25.7	325 296 326 287 191 178	.7 .9 .8 1.1 .8	27 071 15 936 16 677 14 010 8 394 12 131	1.0 1.3 1.1 1.8 1.8	312 260 283 262 179 157	.8 1.1 1.0 1.2 1.0 1.0	19 701 12 004 12 742 10 832 6 418 8 709	.9 1.4 1.1 1.7 2.2 .7
See lootholes at t	בווע טו נמטוע.											

Table F. Reliability Estimates for the State and County Totals: 1992 —Con.

[i or mourning or approvidue	ins and symbo	ols, see introd	uctory text]													
Geographic area		Irriga	ted land		Livestock and poultry											
	Farms Acres					Cattle and calves inventory					Beef cows inventory					
			7.0.00			Farms		Total			Farms		Total			
	Number	Relative standard error of estimate (percent)	Number	Relati standa error estima (percei	rd of ite	umber	Relative standard error of estimate (percent)	Numbe	sta er est	elative ndard ror of imate rcent)	Number	Relative standare error of estimate (percent	d f e	mber	Relative standard error of estimate (percent)	
New Hampshire Belknap Carroll Cheshire Coos	308 16 23 24 16	1.6 6.4 5.1 6.1 6.5	98 63 85	7	.1 7.3 1.2 5.3 5.4	956 61 57 85 88	.9 3.2 3.6 2.7 2.3	48 41 1 59 1 68 5 52 6 31	14 14 12	.4 3.0 2.7 1.3 .7	494 34 40 44 33	4. 4. 4.	9 8 5	727 255 325 263 310	1.8 7.4 8.8 5.2 6.2	
Grafton	22 48 52 61 27 19	6.5 3.9 3.5 3.2 4.6 4.8	497 282 309 142	1 2 2 3	5.8 .0 2.1 3.1 3.6 .0	190 92 143 98 55 87	1.4 2.6 2.0 2.7 3.3 1.9	11 17 4 63 6 51 3 51 2 28 5 19	66 2 3 34	.8 1.1 1.0 2.0 2.5 .7	76 52 86 59 27 43	3. 2. 3. 5.	9 9 9 1	570 387 472 472 299 374	4.7 4.9 4.1 4.3 5.7 4.4	
							Livestock and poultry —Con.									
-	Milk cows inventory				-		Hogs and pig	•				mbs inven	nbs inventory			
Geographic area	Farms			otal		Far		Т			Farms		Tota			
	Number	Relative standard error of estimate (percent)		Relativ standa error estima (percer	rd of te	ımber	Relative standard error of estimate (percent)	Number	stan	or of nate	Number	Relative standard error of estimate (percent)		nber	Relative standard error of estimate (percent)	
New Hampshire Hampshire	389 18 12 32 43	1.1 6.6 8.8 3.4 2.2	402 2 509	3	.4 .1 .8 .6 .4	289 27 20 25 21	1.8 5.6 7.5 5.9 6.4	4 458 437 167 408 112		3.6 16.0 9.7 12.5 7.4	311 15 18 37 22	1.8 7.7 6.7 5.0 5.9	1	052 852 321 520 534	2.8 10.1 7.6 6.7 8.8	
Grafton Hillsborough Merrimack Rockingham Strafford Sullivan	106 37 53 31 21 36	1.8 3.5 2.9 4.1 5.0 2.5	1 977 3 025 1 372 876	1 1 2 1	.9 .1 .0 .1 .5 .3	52 39 33 32 18 22	3.8 4.6 5.0 5.2 7.4 5.3	361 1 591 531 469 169 213		7.7 6.9 10.4 4.2 17.6 5.2	38 38 47 41 21 34	4.4 4.9 4.3 4.9 6.8 4.2		152 942 933 603 307 888	9.5 8.3 7.8 6.5 9.5 5.8	
				•			Livestock and	poultry -Con				I			·	
		Hen	s and pullets of	laying age ir	ventory	tory Broilers and other meat-type chickens sold										
Geographic area	Farms			Total			Farms			Total						
Geographic area	Number		Relative standard error of estimate (percent)	Number			Relative standard error of estimate (percent)	Number			Relative standard error of estimate (percent)		s e		Relative standard error of estimate (percent)	
New Hampshire Belknap Carroll Cheshire Coos	327 26 25 26 28		1.8 5.9 6.3 5.6 5.3		171 109 1 152 (D) 60 062 600		1.4 16.5 (D) 1.9 7.3	25 3 4 3			5.9 16.1 18.1 —		(D) 76 374 (D)		(D) 16.4 22.8 (D)	
Grafton Hillsborough Merrimack Rockingham Strafford Sullivan		41 4.3 48 4.2 43 4.6 38 5.2 23 6.6 29 4.3		(D) 6 453 4 651 10 758 1 601 1 015		(D) 2.7 4.3 18.9 2.7 4.9	2 2 5 3 2 1			21.4 24.5 13.4 17.8 18.3 26.0	5 (D) 4 (D) 8 395 3 (D)			(D) (D) (D) 16.0 (D) (D)		
	Selected crops harvested															
Geographic area			Corn for gra	ain or seed					Corn for sile			ge or green chop				
	Farms		Acres			Quantity		Farms			Acres		Quantity		ty	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Ві	ushels	Relative standard error of estimate (percent)	Number	Relative standa error estima (percer	rd of te	Number	Relative standard error of estimate (percent)	Tons,	green	Relative standard error of estimate (percent)	
New Hampshire BelknapCarrollCheshire	34 5 2 4 3	4.4 14.5 25.5 11.4 15.8	1 620 17 (D) 600 190	4.3 14.8 (D) 11.4 5.0		4 250 670 (D) 6 600 (D)	5.1 14.9 (D) 14.1 (D)	258 14 7 28 16	6 7 3	.1 .7 7.8 .9	16 577 475 397 1 939 1 579	.4 3.4 .5 1.6	37	941 9 291 6 558 7 455 3 580	. 4 2.8 .6 1.6	
Grafton	5 3 4 3 1 4	18.6 7.6 20.1 —	285 4 214 4 (D) (D)	19.0 5.7 18.5 (D)		4 160 285 4 505 (D) (D) (D)	20.1 4.2 (D) (D) (D)	54 25 52 28 12 22	1 3 2 3	.9 .4 .5 .9 1.7	3 511 1 416 2 944 881 950 2 485	1.2 1.6 .7 1.9 .9	66 26 55 1	6 429 6 853 5 324 4 006 5 369 2 076	1.4 1.6 .7 1.6 .5	

Table F. Reliability Estimates for the State and County Totals: 1992 —Con.

[i oi illearling of abbreviation	no and symbols, se	e introductory tex	ч											
	Selected crops harvested —Con.													
Geographic area	Hay—alfa	alfa, other tame, s	mall grain, wild,	grass silage, gree	n, chop, etc. (see	e text) Vegetables harvested for sale (see text)								
	Farms	s	Acre	es	Quai	antity Fa		ms	Ac	Acres				
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)				
New Hampshire Belknap Carroll Cheshire Coos	1 492 94 89 132 126	.8 2.2 2.4 2.0 1.7	77 605 3 395 3 800 6 321 10 830	.7 3.4 3.2 2.0 1.3	136 963 6 272 6 900 12 364 18 869	. 7 4.7 3.6 2.1 1.0	327 19 27 29 18	1.6 6.8 5.3 5.5	180 144 249	1.5 4.5 2.7 7.2 7.9				
Grafton	257 168 215 164 123 124	1.1 1.7 1.4 1.9 1.8 1.4	16 092 7 988 9 541 8 515 5 224 5 899	1.1 2.0 1.5 2.1 2.7 1.1	26 030 13 972 16 711 15 479 8 727 11 639	1.1 2.6 1.6 2.0 2.3 .9	26 45 56 63 29 15	5.0 4.1 3.5 3.4 4.5 5.6	1 078 241 895 193	5.3 1.7 2.7 3.7 6.9 7.3				
Geographic area	Selected crops harvested-Con.													
					Land in o	orchards								
			Farms			Acres								
		Nu	mber		Relative standard error of estimate (percent)		N	umber	Relative standard error of estimate (percent)					
New Hampshire BelknapCarroll			242 19 15 19 13		2.0 7.2 7.8 7.2 9.4			3 877 131 98 143 45		1.1 10.3 15.4 2.9 10.2				
Grafton Hillsborough Merrimack Rockingham Strafford Sullivan			22 51 22 31 31 19		6.4 3.8 5.9 4.9 4.9 5.4			165 1 790 361 892 144 107		3.5 1.4 4.1 1.1 5.5 9.6				

¹Data are based on a sample of farms.

Table G. New England States' Estimates of the Not on the Mail List Component of Farm Coverage Error: 1992

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text]

	Census publ	lished farms	Not on m	nail list 1	Percent not on mail list ¹		
Item	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (percent)	Standard error of percent	
Farmsnumber_	22 991	.4	5 422	12.5	19.1	2.0	
Land in farmsacres	3 857 438	.3	314 720	21.7	7.5	1.4	
Average size of farmacres	167.8	.5	58.0	16.8	(X)	(X)	
Farms by size: Less than 10 acres 10 to 49 acres Less than 50 acres 50 acres or more 50 to 99 acres 100 to 179 acres 180 acres or more	2 843 5 597 8 440 14 551 3 800 3 874 6 877	.8 .6 .4 .6 .6	1 229 2 491 3 720 1 702 688 674 339	29.5 18.7 15.3 22.2 37.4 32.6 48.6	30.2 30.8 30.6 10.5 15.3 14.8 4.7	6.6 4.0 3.3 2.1 5.1 4.2 2.1	
Harvested cropland farms acres	19 644	.4	3 927	14.9	16.7	2.1	
	1 312 694	.2	63 683	19.9	4.6	.9	
Farms by value of sales: Less than \$1,000 \$1,000 to \$2,499 Less than \$2,500 \$2,500 or more \$2,500 to \$9,999 \$10,000 or more	3 770	.8	2 192	20.0	36.8	4.7	
	3 041	.8	1 238	29.1	28.9	5.8	
	6 811	.7	3 431	16.0	33.5	3.6	
	16 180	.4	1 991	19.8	11.0	1.9	
	5 776	.6	1 218	25.8	17.4	3.7	
	10 404	.3	773	34.7	6.9	2.3	
Market value of agricultural products sold\$1,000	1 686 781	.1	27 166	30.0	1.6	.5	
Farms by standard industrial classification: Crops (01) Livestock (02)	12 093	.5	2 221	19.3	15.5	2.5	
	10 898	.4	3 201	17.2	22.7	3.1	
Farms by type of organization: Individual or family Partnership or corporation Other	19 403	.4	4 857	13.0	20.0	2.1	
	3 368	.5	460	50.0	12.0	5.0	
	220	1.8	—	(X)	–	(X)	
Farms by tenure of operator: Full owners Part owners and tenants Part owners Tenants	14 362	.5	3 963	15.0	21.6	2.6	
	8 629	.4	1 457	23.3	14.4	2.8	
	7 037	.4	1 148	25.8	14.0	3.0	
	1 592	.8	309	48.2	16.2	6.7	
Operators by place of residence: On farm operated Not on farm operated Not reported	18 979	.4	4 837	13.2	20.3	2.2	
	2 824	.6	281	45.6	9.1	3.8	
	1 188	.9	303	61.6	20.3	9.5	
Operators by principal occupation: Farming Other	12 774	.4	1 971	23.6	13.4	2.8	
	10 217	.6	2 925	17.3	22.3	3.0	
Operators by sex: Male Female	19 820	.4	4 825	13.1	19.6	2.1	
	3 171	.7	597	34.5	15.9	4.6	
Operators by race: WhiteBlack and other races	22 909 82	.4 3.6	4 895	13.3 (X)	17.6	1.9 (X)	
Operators by years on present farm: 4 years or less 5 years or more Average years on present farm	2 150	.9	1 129	29.7	34.4	6.7	
	17 693	.4	3 339	15.7	15.9	2.2	
	19.6	.6	16.0	13.3	(X)	(X)	
Not reported	3 148	.6	954	29.7	23.3	5.3	
Average age of operator	53.2	.6	53.4	4.3	(X)	(X)	

Note: These estimates do not account for incorrectly classified farms or farms appearing more than once in the census and are subject to change in the 1992 Coverage Evaluation publication. See appendix C text for further explanation.

Note: New England States include Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

¹Estimates are based on a sample survey conducted independently of census data collection.